

FIG.1
PRIOR ART

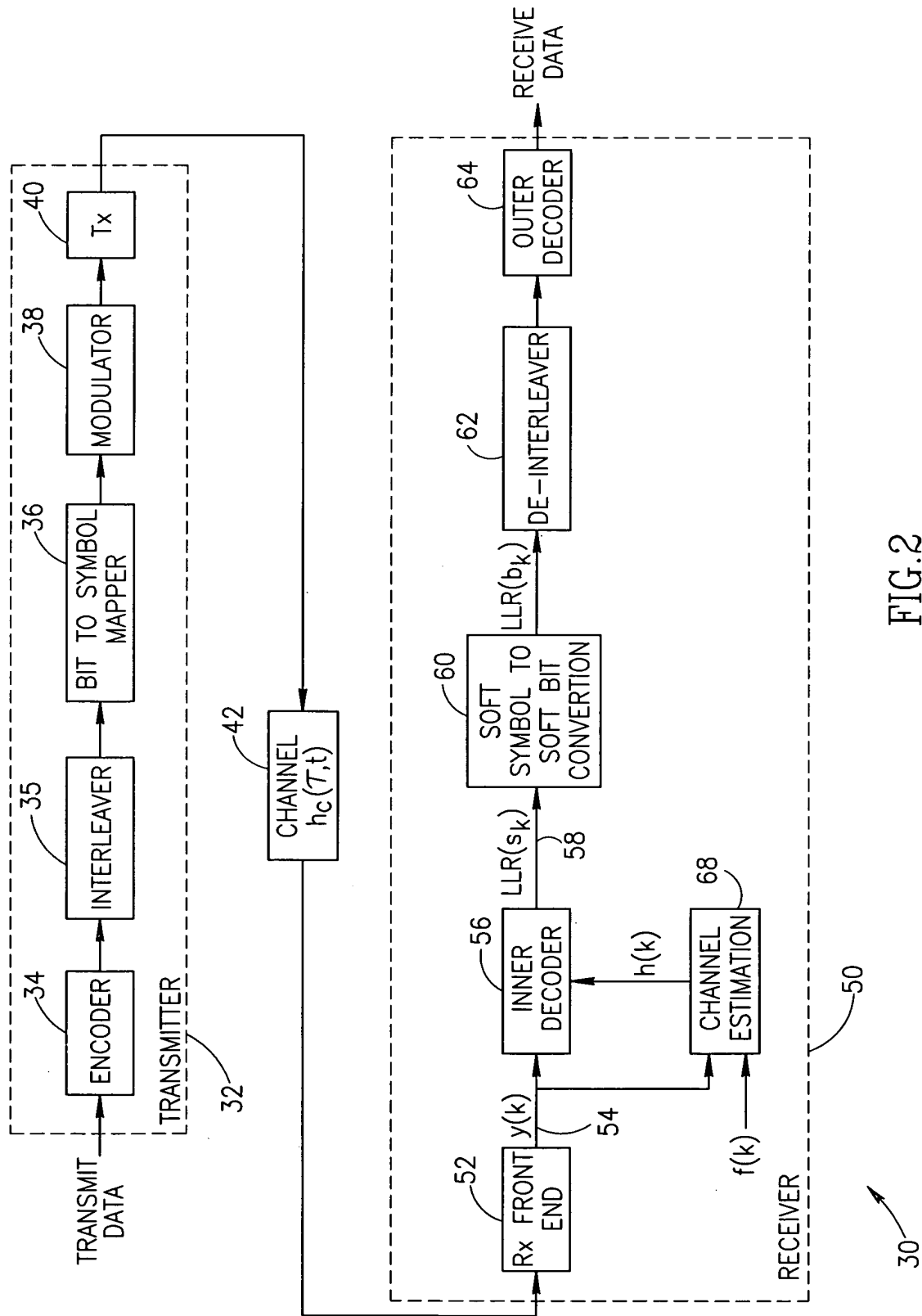


FIG. 2

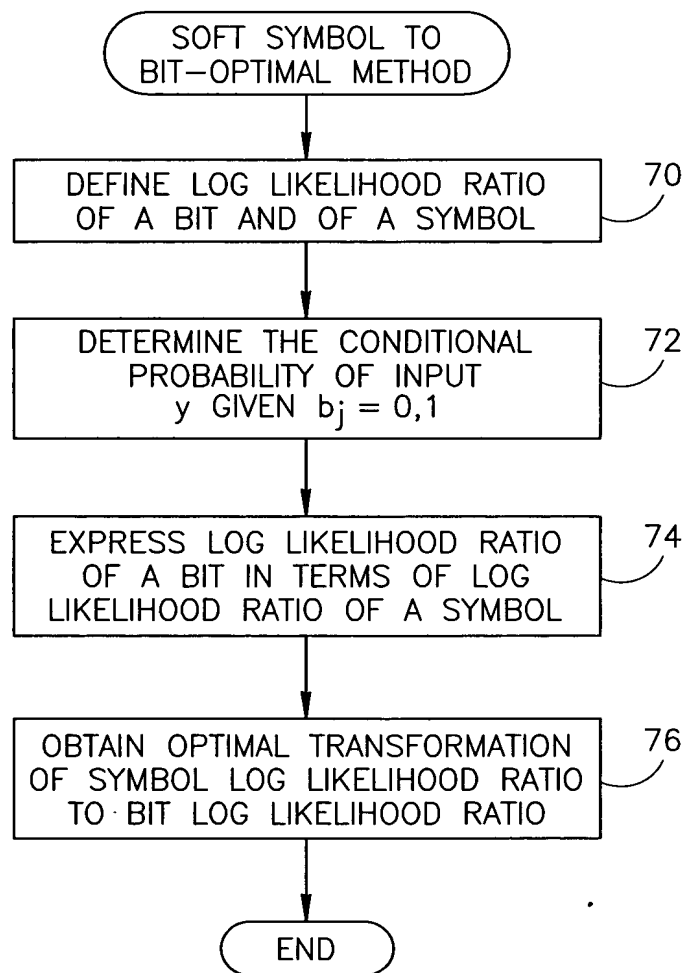


FIG.3

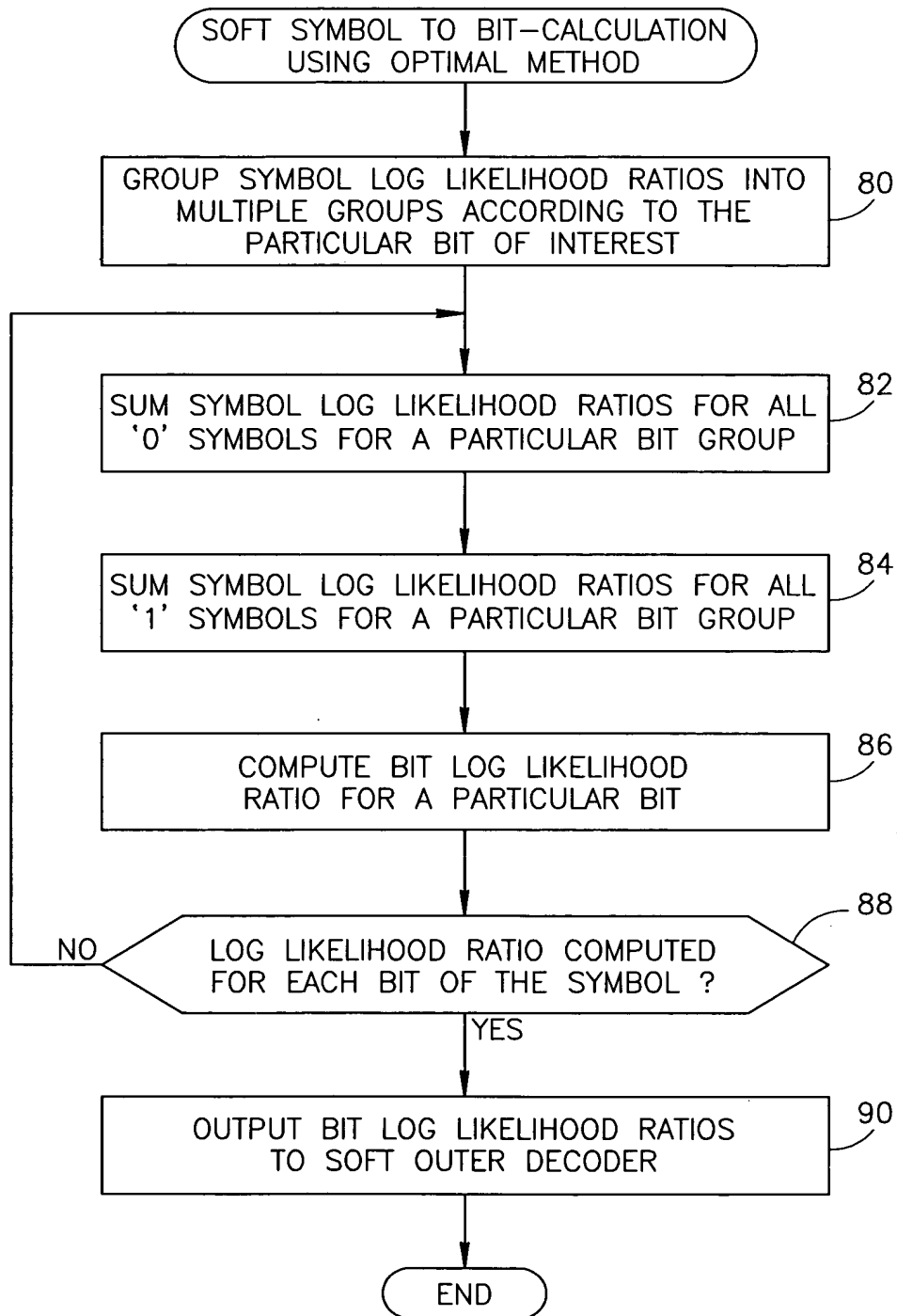


FIG.4

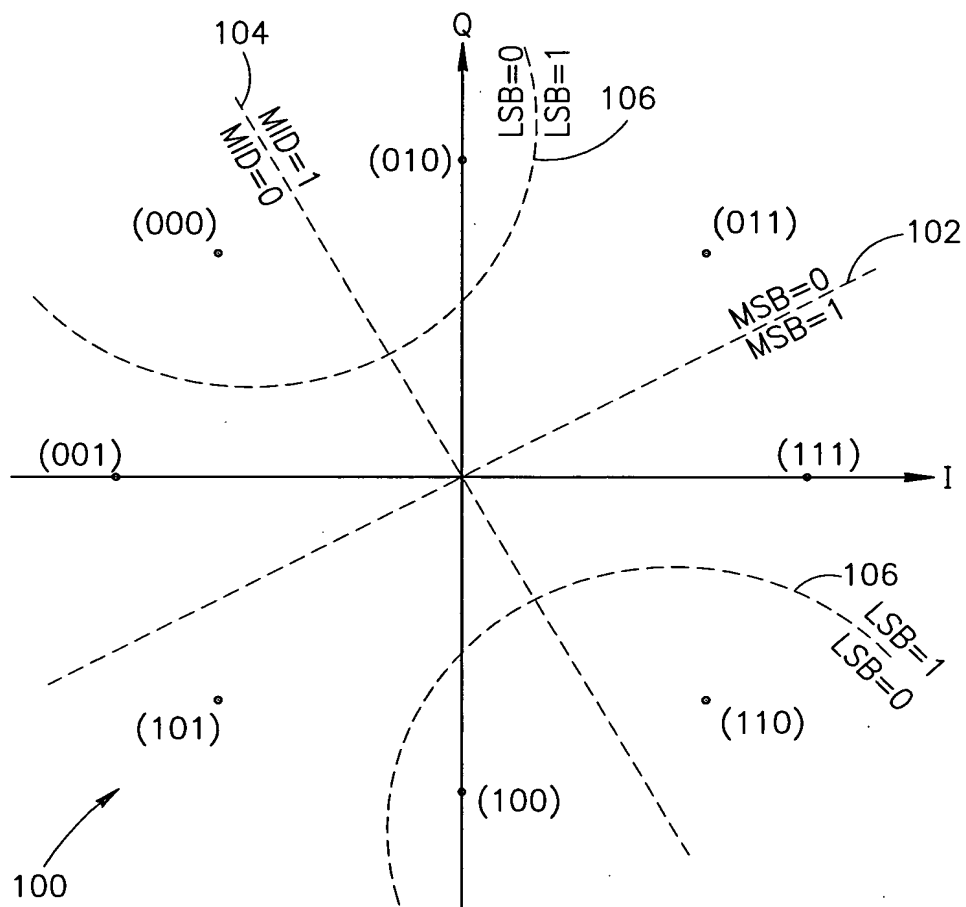


FIG.5

SOFT SYMBOL TO
BIT-APPROXIMATION METHOD

DEFINE LOG LIKELIHOOD RATIO OF
A BIT AND OF A SYMBOL

110

DETERMINE PROBABILITY OF INPUT
 y GIVEN $b_j = 0,1$

112

EXPRESS LOG LIKELIHOOD RATIO
OF A BIT IN TERMS OF LOG
LIKELIHOOD RATIO OF A SYMBOL

114

APPROXIMATE TO NEAREST
NEIGHBOR

116

OBTAIN APPROXIMATION OF BIT LOG
LIKELIHOOD RATIO IN TERMS OF
SYMBOL LOG LIKELIHOOD RATIO

118

END

FIG.6

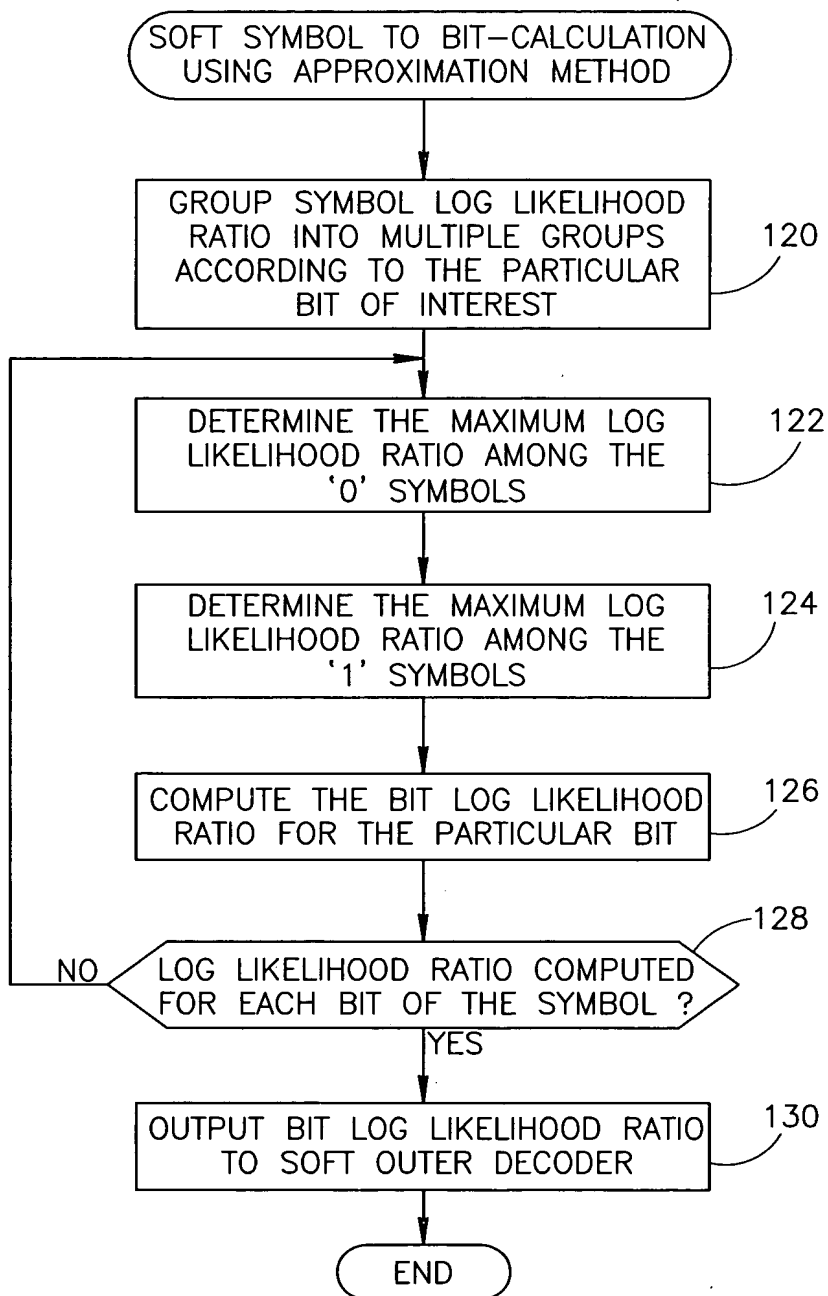


FIG.7

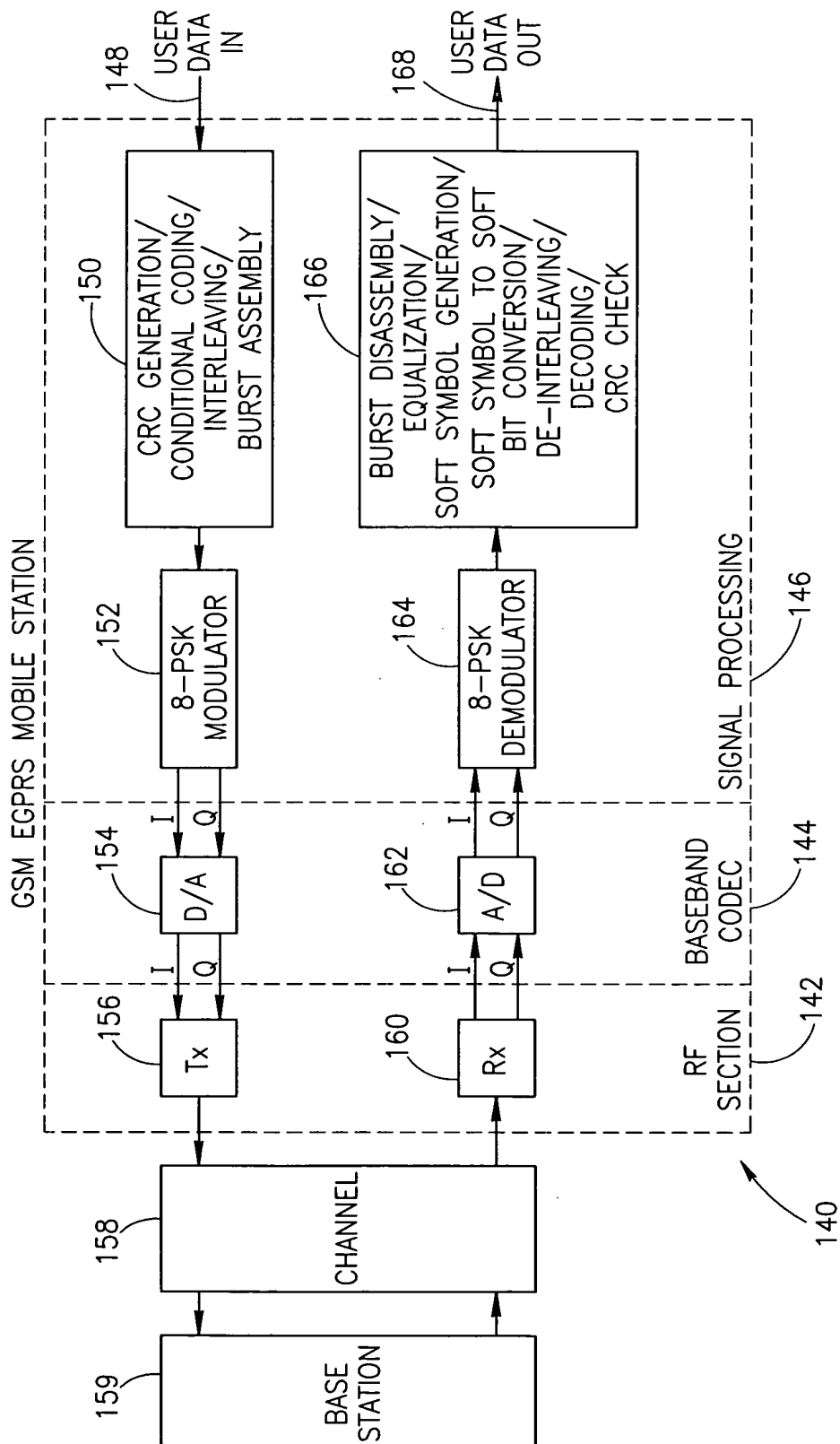


FIG. 8

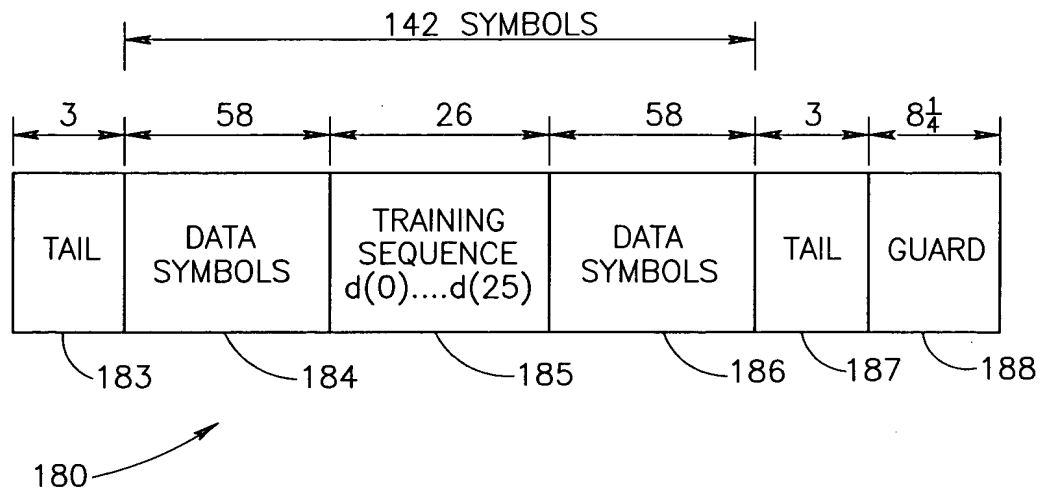


FIG.9

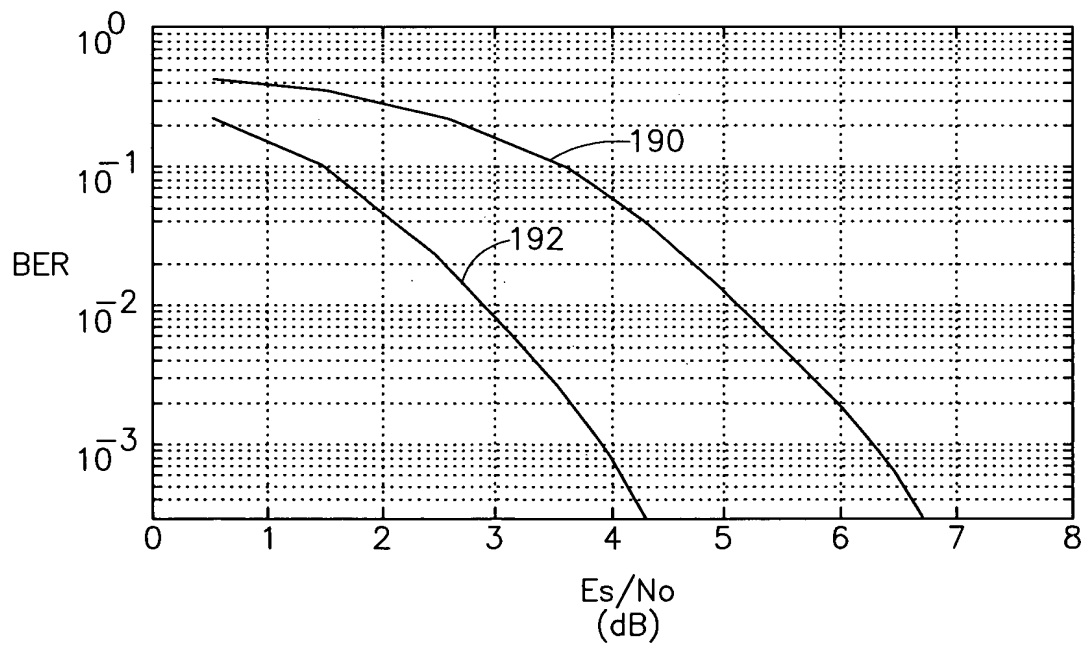


FIG.10

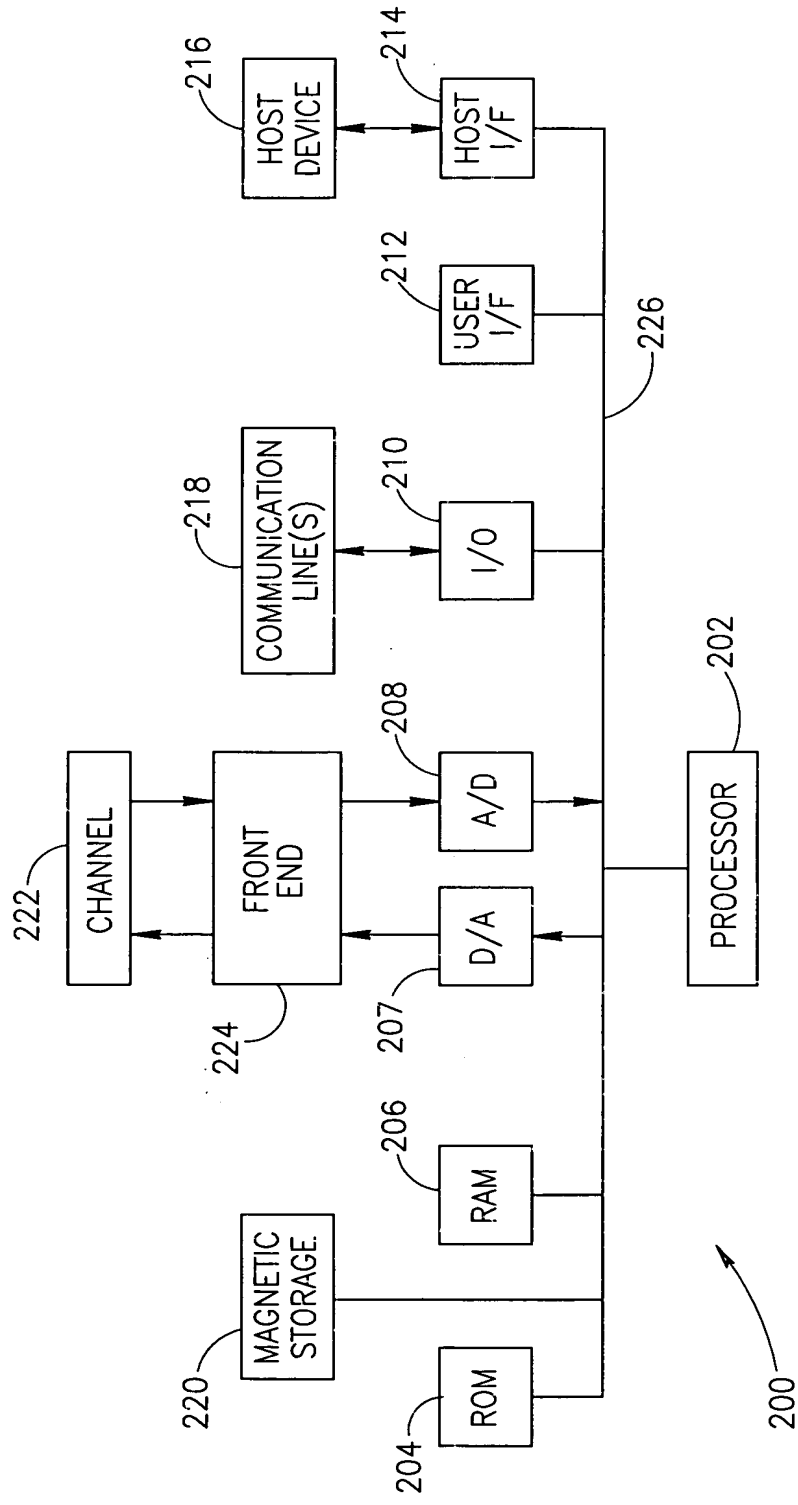


FIG.11